

METHOD, SYSTEM, AND DATA STRUCTURES FOR USING METADATA
IN UPDATING DATA IN A STORAGE DEVICE

ABSTRACT

Disclosed is a method, system, and data structures for updating data in a storage
5 device. An update to one or more blocks of customer data at addresses in the storage
device is received. For each block of data to update, metadata is generated indicating the
address of the block in the storage device and an error checking code that is capable of
being used to determine whether the customer data in the block has changed. For each
block of data to update, the block of data to update and the metadata for the block are
10 written to cache. Further, for each block of data to update, the block of data and the
metadata are transferred for the block from the cache to the storage device. The metadata
may be used during power loss and recovery.

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